

Title (en)

MICROPOROUS POLYOLEFIN MEMBRANE, PROCESS FOR PRODUCING THE SAME, SEPARATOR FOR CELL, AND CELL

Title (de)

MIKROPORÖSE POLYOLEFINMEMBRAN, HERSTELLUNGSVERFAHREN DAFÜR, SEPARATOR FÜR EINE ZELLE UND ZELLE

Title (fr)

MEMBRANE MICROPOREUSE POLYOLEFINIQUE, PROCEDE DE PRODUCTION, SEPARATEUR DE CELLULE, ET CELLULE

Publication

**EP 1956040 B1 20120104 (EN)**

Application

**EP 06833139 A 20061122**

Priority

- JP 2006323317 W 20061122
- JP 2005339451 A 20051124

Abstract (en)

[origin: EP1956040A1] A microporous polyolefin membrane comprising a polyethylene resin, and having (a) a shutdown temperature of 135°C or lower, at which the air permeability measured while heating at a temperature-elevating speed of 5°C/minute reaches  $1 \times 10^{-5}$  sec/100 cm<sup>3</sup>, (b) a maximum melting shrinkage ratio of 40% or less in a transverse direction in a temperature range of 135 to 145°C, which is measured by thermomechanical analysis under a load of 2 gf and at a temperature-elevating speed of 5°C/minute, and (c) a meltdown temperature, at which the air permeability measured while further heating after reaching the above shutdown temperature becomes  $1 \times 10^{-5}$  sec/100 cm<sup>3</sup> again, being 150°C or higher.

IPC 8 full level

**C08J 9/00** (2006.01); **C08J 9/26** (2006.01); **H01M 10/36** (2010.01); **H01M 50/417** (2021.01); **H01M 50/491** (2021.01); **H01M 50/494** (2021.01); **H01M 10/052** (2010.01)

CPC (source: EP KR US)

**C08J 5/22** (2013.01 - KR); **C08J 9/22** (2013.01 - KR); **C08J 9/26** (2013.01 - KR); **H01M 10/05** (2013.01 - KR); **H01M 10/4235** (2013.01 - EP US); **H01M 50/417** (2021.01 - EP KR US); **H01M 50/491** (2021.01 - EP KR US); **H01M 50/494** (2021.01 - EP KR US); **H01M 10/052** (2013.01 - EP US); **H01M 10/24** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP); **Y10T 428/249921** (2015.04 - EP US)

Cited by

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